

A photograph of a driver inside a vehicle cab, viewed from the side. The driver is wearing a light-colored shirt and is looking out the window. The dashboard and steering wheel are visible. The image is dark, with the driver's face and the dashboard instruments providing the main light sources.

# Fatigue Detection Technology

For All Vehicle Types

# Why Fatigue Detection Technology (FDT)?

## **Reduces Driver Fatigue**

Proven to reduce driver fatigue by 86%.

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## **Actively Wakes the Driver**

Instantly wakes the driver if they're drowsy with a vibrating seat, plus audio and visual alarms.

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## **Detailed Trend Analysis**

The system highlights all recurring fatigue patterns across your fleet.

Fatigue remains one of the leading causes of road incidents in commercial transport.

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1 in 8 UK drivers admits to falling asleep at the wheel.\*

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30 road casualties per week are caused by driver fatigue.\*\*

\*Source: RoSPA, Road Safety Fact Sheet, Driver Fatigue and Road Accidents 2024

\*\* Source: Road Safety GB, In Association with THINK!

Driver fatigue is a silent threat in the commercial driving industry. Fatigue-related road incidents are 50% more likely to result in fatalities or severe injuries.\* Simply put, if a driver is falling asleep, their chances of braking, swerving, or slowing down are virtually non-existent.

With advancements in AI and real-time monitoring, Fatigue Detection Technology (FDT) has emerged as a proven solution, significantly reducing fatigue-related incidents.

Fatigue has affected everyone.  
Drivers are at increased risk.

A study conducted by Exeros Technologies highlights the impact of FDT:

A recent Exeros study demonstrated that implementing fatigue detection can decrease fatigue-related events by up to 86%\* across commercial fleets.



Without FDT, a 200-vehicle fleet recorded 21 fatigue events per hour.



With active FDT, the same fleet experienced only 4 fatigue events per hour.



90% of drivers did NOT experience a second fatigue event on the same journey.

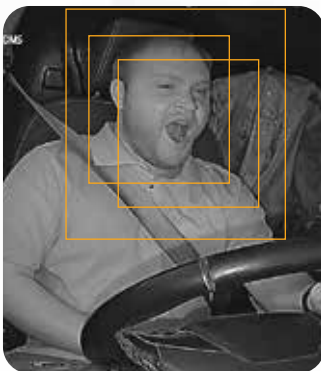
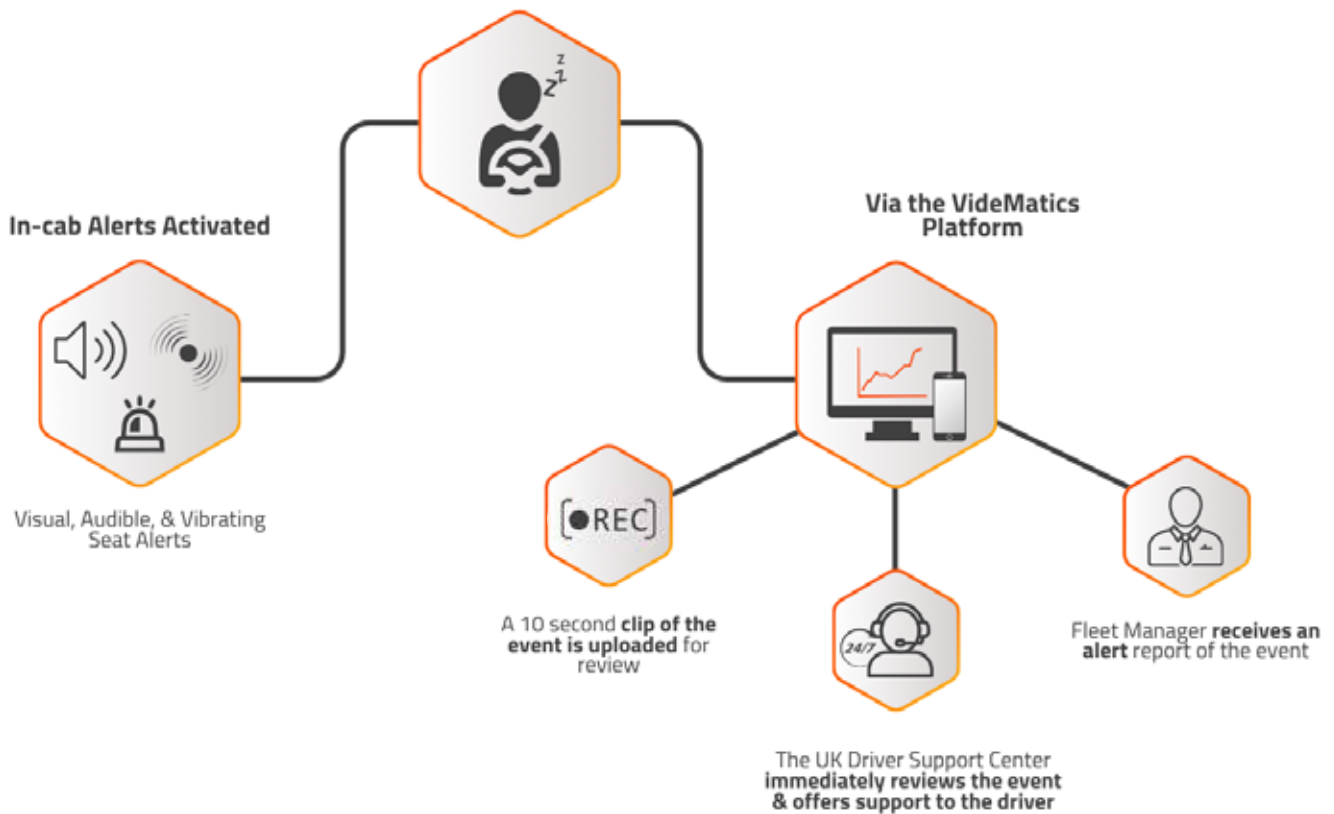
\*Source: Exeros Technologies Fatigue Data Summary Report 2024

Many drivers don't know when they've just fallen asleep at the wheel.

# How Our Fatigue Detection Technology Works

## Risky Fatigue Event Detected

Advanced AI tracks eye movements, head position and blink rate to detect signs of fatigue.



**Privacy-first:** Fatigue Detection Technology ensures anonymity by not identifying individuals

Although the camera is always on, Exeros' FDT does NOT record and store normal driving behaviour – the system can be configured to only take video when an event is detected.

Two weeks of silent observation. Then the system activates — and fatigue rates drop.

## Hardware Components

1

Driver feedback display

2

Driver facing camera

3

Vibrating seat motor



## Why Now is the Right Time for FDT

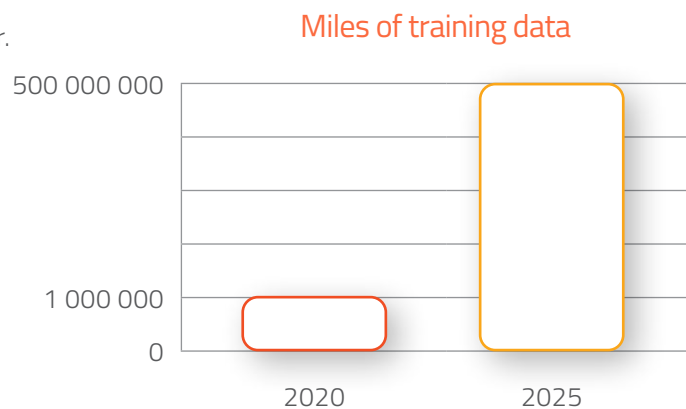
The demand for safer roads has never been higher. By using fatigue detection, fleet companies are looking out for their drivers' safety, lowering the chances of accidents, and making sure they're meeting road safety requirements.

### Accuracy Over Time

Today, our FDT systems are over 97% accurate and highly efficient.

2020 - 1 million miles of training data

2025 - 500 million miles of training data





# What Makes Our Fatigue Detection Technology Unique?

In under 2 minutes, fleet managers are notified of high risk events.

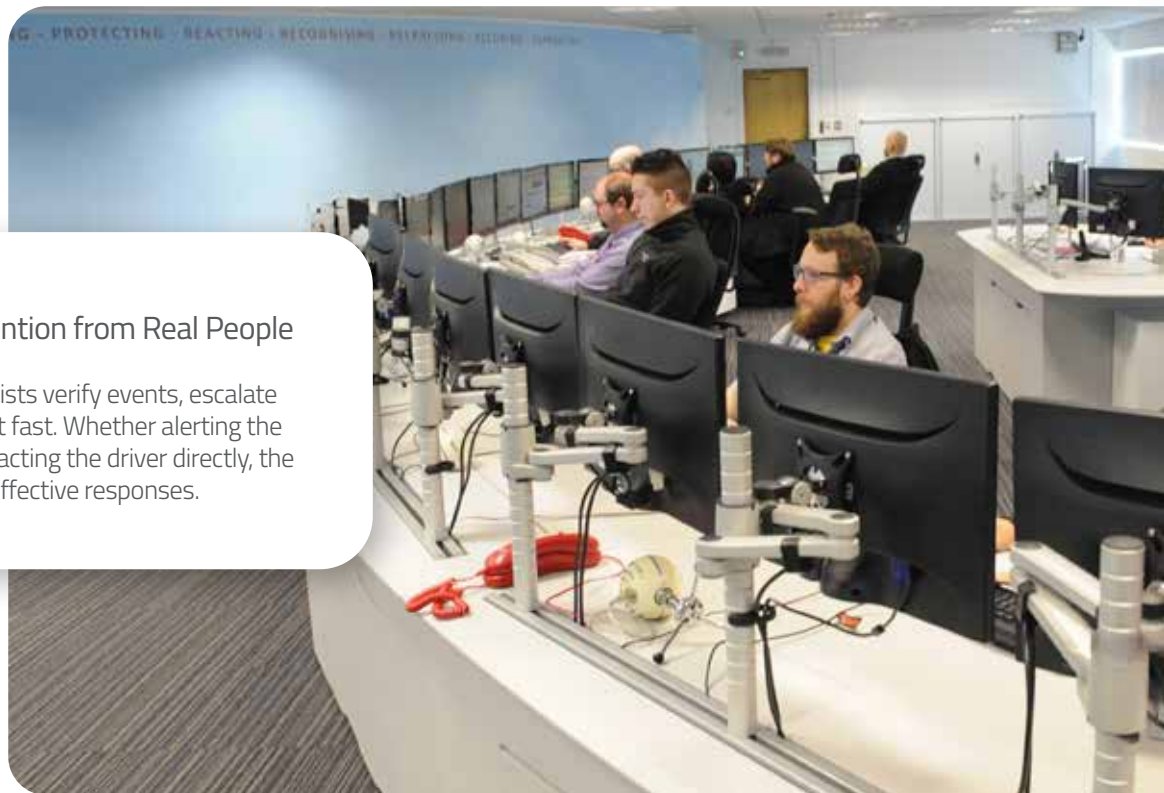
## Smarter Safety, Delivered 24/7/365

Our FDT goes beyond standard video telematics. It combines advanced AI, our powerful VideMatics platform, and a UK-based, 24/7/365 Driver Support Centre (DSC) to detect fatigue risks in real time and respond instantly.

This is more than just technology—it's a safety ecosystem built to **Prevent. Protect. Educate.**

### Real-Time Intervention from Real People

Our UK-based specialists verify events, escalate what matters, and act fast. Whether alerting the fleet operator or contacting the driver directly, the DSC ensures timely, effective responses.



## Data Security You Can Trust

We meet the highest standards—ISO27001, Cyber Essentials, ICO-registered—and our infrastructure is built for scale, security, and sustainability. Every data-handling employee is thoroughly vetted.

At Motorway speeds, 4 seconds of sleep sends a vehicle



## The Engine Behind It All: VideMatics

Our intelligent software powers the in-vehicle co-pilot — working in real time to keep drivers sharp and fleets safe.

- » Driver Fatigue Detection
- » Next-Gen Video Telematics
- » 360° Pedestrian Detection
- » Intelligent Driver Scoring
- » Risky Tailgating
- » Distraction Alerts
- » Mobile Phone Use
- » Walk-Around Checks via App
- » Accident Reporting App



the length of a football field – eyes closed.

Driver fatigue: a hidden danger  
deadlier than drink driving.



## About Exeros

Founded in 2009 Exeros Technologies is an innovative technology-led company with a vision to change vehicle and road safety for good.

Our goal is to deliver technology that gets all road users home safely each day.

We are trusted to consistently reduce risk and help fleets by delivering an exceptional service to protect people, reputations and assets.

## Protect Your Drivers. Enhance Your Fleet.

Request a Demo or Free Trial today and drive the future of safer, smarter fleet management.



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